

Title (en)

HYPERSPECTRAL, FLUORESCENCE, AND LASER MAPPING IMAGING WITH FIXED PATTERN NOISE CANCELLATION

Title (de)

HYPERSPEKTRAL-, FLUORESCENZ- UND LASERKARTIERUNGSABBILDUNG MIT RAUSCHUNTERDRÜCKUNG MIT FESTEM MUSTER

Title (fr)

IMAGERIE HYPERSPECTRALE, PAR FLUORESCENCE ET CARTOGRAPHIE LASER AVEC ANNULATION DE BRUIT DE MOTIF FIXE

Publication

EP 3987767 A4 20230531 (EN)

Application

EP 20826403 A 20200605

Priority

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- US 2020036473 W 20200605

Abstract (en)

[origin: WO2020256978A1] Hyperspectral, fluorescence, and laser mapping imaging with reduced fixed pattern noise is disclosed. A method includes actuating an emitter to emit a plurality of pulses of electromagnetic radiation and sensing reflected electromagnetic radiation resulting from the plurality of pulses of electromagnetic radiation with a pixel array of an image sensor. The method includes reducing fixed pattern noise in an exposure frame by subtracting a reference frame from the exposure frame. The method is such that at least a portion of the pulses of electromagnetic radiation emitted by the emitter comprises one or more of: electromagnetic radiation having a wavelength from about 513 nm to about 545 nm, from about 565 nm to about 585 nm, from about 900 nm to about 1000 nm, an excitation wavelength of electromagnetic radiation that causes a reagent to fluoresce, or a laser mapping pattern.

IPC 8 full level

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CPC (source: EP US)

A61B 1/043 (2013.01 - EP); **A61B 1/05** (2013.01 - EP); **A61B 1/063** (2013.01 - EP); **A61B 1/0638** (2013.01 - EP); **A61B 1/07** (2013.01 - EP); **G01J 3/2803** (2013.01 - EP); **G01J 3/2823** (2013.01 - US); **G01N 21/31** (2013.01 - EP); **G01N 21/6456** (2013.01 - EP); **G01S 7/483** (2013.01 - US); **G01S 17/46** (2013.01 - EP); **G01S 17/89** (2013.01 - EP US); **G06T 5/50** (2013.01 - EP); **G06T 7/0012** (2013.01 - EP); **H04N 5/33** (2013.01 - EP); **H04N 23/10** (2023.01 - EP); **H04N 23/11** (2023.01 - EP); **H04N 23/125** (2023.01 - EP); **H04N 23/54** (2023.01 - EP); **H04N 23/555** (2023.01 - EP); **H04N 23/56** (2023.01 - EP); **H04N 23/74** (2023.01 - EP); **H04N 25/585** (2023.01 - EP); **H04N 25/633** (2023.01 - EP); **H04N 25/674** (2023.01 - EP); **H04N 25/677** (2023.01 - EP); **G01J 2003/104** (2013.01 - EP); **G01J 2003/106** (2013.01 - EP); **G01J 2003/2826** (2013.01 - EP); **G01N 2021/178** (2013.01 - EP); **G06T 7/0012** (2013.01 - US); **G06T 2207/10024** (2013.01 - EP); **G06T 2207/10028** (2013.01 - EP); **G06T 2207/10064** (2013.01 - EP US); **G06T 2207/10068** (2013.01 - EP US); **G06T 2207/20212** (2013.01 - EP); **G06T 2207/30024** (2013.01 - US)

Citation (search report)

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